

Consumptive Use of Pitwater Worksheet

Enter Values in Yellow

Pit Groundwater Volume

- 1 Total volume of water pumped from the producing mine pit(s)
- 2 Volume of precipitation that falls onto the surface of water in the producing mining pit(s)
- 3 Portion of total precipitation that flows over the land surfaces that drains into the mine pit water
- 4 Other non-pit waters pumped from the producing mine pit
- 5 Add lines 2 through 4
- 6 **Pit Groundwater Volume (Line 1 - Line 5)**

Amount (gallons)	Area of Pit: 54.5 (acres)	Rainfall: 34 (inches)
55,090,100		
50,313,397		
0		
0		
50,313,397		
4,716,703		

Defined Elements of Consumptive Use

- 7 Volume of pit water that is driven off (by drying) the mined material transported off the mine site
- 8 Volume of pit water that is carried away with the mined material transported off the mining site (shipped)
- 9 Volume of pit water that evaporates from the producing mine pit, process water ponds, and lined ponds (excluding structures used for augmentation)
- 10 Volume of pit water that is used for other beneficial uses off the mine site
- 11 **Defined Elements of Consumptive Use of Pit Groundwater (add Lines 7 through 10)**

Amount (gallons)	Tons Mined: 1,150,547	% Moisture: 5.0
13,779,006		
0		
557,767	ASHRAE Evaporation Model	
0	A: 95	(m/hr)
	B: 37.4	(in-Hg)
	V: 5	(ft/hr)
	Pw: 0.69	(ft/hr)
	Pa: 0.522	(ft/hr)
	Iw: 970.4	(ft/hr)
	Evap Area: 10	(acre)
14,336,773		

Pit Groundwater Balance

- 12 Line 6 minus Line 11
- 13 **Groundwater Augmentation** (Volume of pit groundwater returned to the groundwater basin or sub basin)
- 14 **Stream Augmentation** (Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance or median historic flows.)
- 15 **Precipitation & Run-off** (Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation)
- 16 **Additional Discharge** (Volume of pit groundwater discharged to a definite stream, not meeting stream augmentation credit criteria)
- 17 **Recycled Pit Groundwater** (Volume of pit groundwater returned to a mine pit or holding basin not included on lines 7 through 10)
- 18 **Other Non-Consumptive Losses** (Including pit groundwater returned to the land surface from which surface run-off flows into a mine pit, and other losses not included in lines 7 through 10)
- 19 Add lines 13 through 18
- 20 **Other Consumptive Use (adjusted)** Line 12 minus 19

Amount (gallons)	
-9,620,071	
0	
0	
0	
0	
0	
0	
0	
0	
-9,620,071	

Total Reported Consumptive Use Of Pit

- 21 **Total Reported Consumptive Use Of Pit (add Line 11 and Line 20)**

Amount (gallons)	at	0.2	acre-feet	for	962	acres
4,716,703						
62,693,815						

Facility's Equal Proportionate Share (EPS)

